```
% Exercitiul 2:
clear , close all
N = 128; M = 1000;
A = 1; n = 0:N+M-1;
x = sin(2*pi*n/64) + A*randn(1,length(n));
phi = autocorrelation(x,N,M);
subplot(212); plot(x(1:N)); grid; title('Sine with white noise');
subplot(222); plot(phi); grid; title('Autocorrelation function');
```